

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934853

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

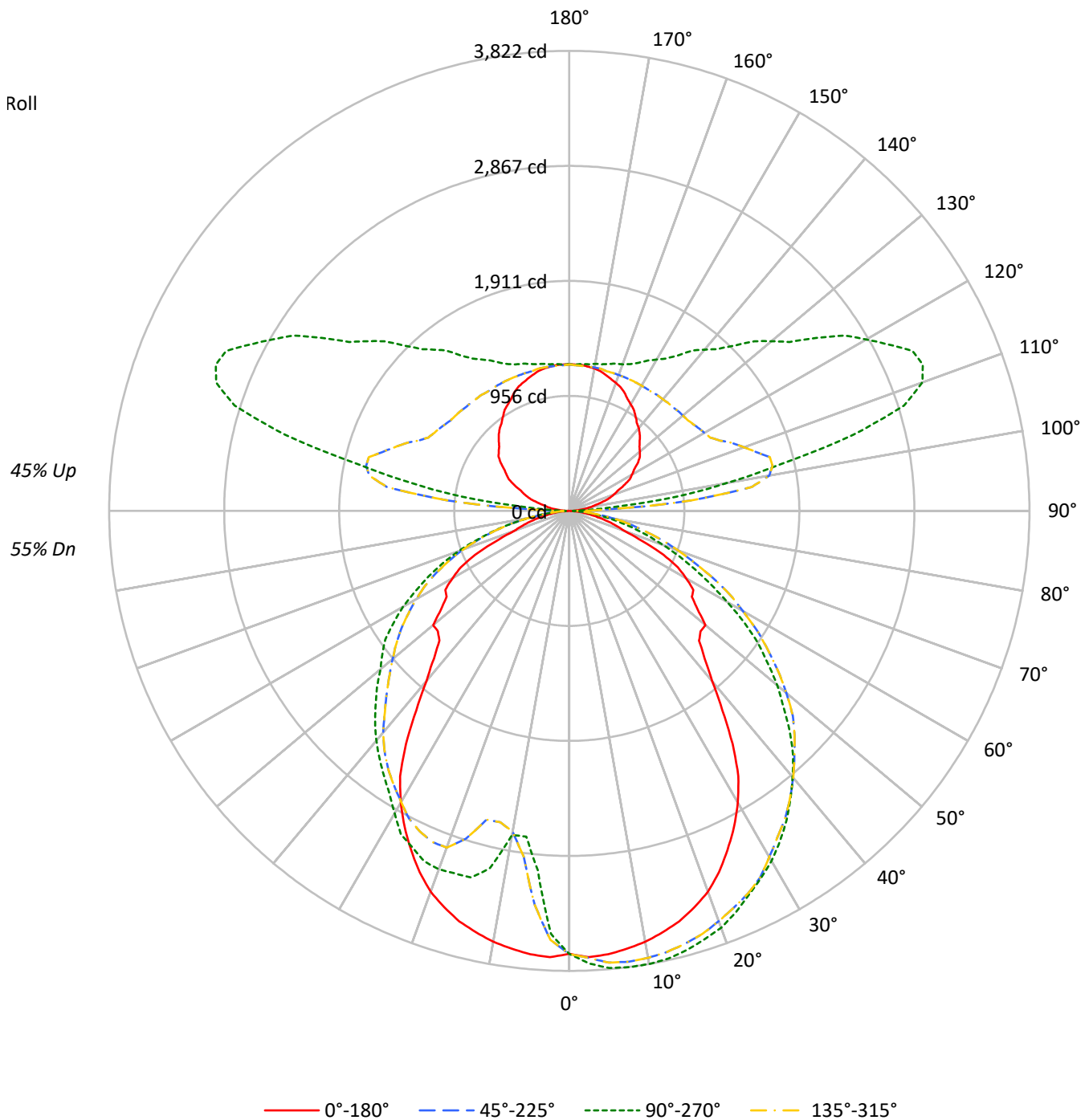
Test Method: LM-79-2019  
Report Number: P934853  
REPORT IS A COMBINATION OF REPORTS P933713 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17435.2 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 153.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11382	11382	11382	11382
5°	11471	11490	11471	9034
10°	11398	11318	11398	8091
15°	11279	11072	11279	9246
20°	11047	10782	11047	9265
25°	10569	10358	10569	9068
30°	9949	10007	9949	8638
35°	8874	9561	8874	8164
40°	7398	9038	7398	7806
45°	6615	8425	6615	7394
50°	7033	7694	7033	6982
55°	6623	6906	6623	6742
60°	6836	5865	6836	6175
65°	6208	4848	6208	5420
70°	4309	3864	4309	4543
75°	3793	2856	3793	3420
80°	3079	1888	3079	2056
85°	1805	1000	1805	850

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.2	1.9
10°-20°	943.1	5.4
20°-30°	1457.9	8.4
30°-40°	1740.4	10.0
40°-50°	1750.6	10.0
50°-60°	1523.2	8.7
60°-70°	1080.0	6.2
70°-80°	571.4	3.3
80°-90°	146.9	0.8
90°-100°	593.2	3.4
100°-110°	1559.7	8.9
110°-120°	1617.2	9.3
120°-130°	1297.2	7.4
130°-140°	1017.8	5.8
140°-150°	781.2	4.5
150°-160°	562.6	3.2
160°-170°	344.2	2.0
170°-180°	116.3	0.7
0°-30°	2733.1	15.7
0°-40°	4473.5	25.7
0°-60°	7747.3	44.4
0°-90°	9545.6	54.7
90°-120°	3770.1	21.6
90°-150°	6866.4	39.4
90°-180°	7890.0	45.3
0°-180°	17435.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3680	3680	3680	3680	3680	
5°	3697	3812	3697	2998	3697	351
15°	3530	3777	3530	3154	3530	993
25°	3109	3523	3109	3084	3109	1427
35°	2364	3144	2364	2684	2364	1462
45°	1525	2590	1525	2273	1525	1221
55°	1243	1911	1243	1866	1243	1142
65°	863	1152	863	1288	863	825
75°	327	547	327	654	327	344
85°	56	139	56	118	56	75
90°	8	31	8	31	8	9
95°	78	359	78	359	78	87
105°	281	2442	281	2442	281	298
115°	499	3145	499	3145	499	493
125°	694	2504	694	2504	694	616
135°	827	1943	827	1943	827	640
145°	960	1576	960	1576	960	601
155°	1085	1358	1085	1358	1085	498
165°	1170	1264	1170	1264	1170	330
175°	1217	1225	1217	1225	1217	116
180°	1217	1217	1217	1217	1217	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3711.1	3711.1	3732.0	3738.9	3738.9	3728.5	3718.0	3728.5	3759.8	3770.3	3766.8
5°	3697.2	3725.1	3763.3	3770.3	3777.2	3773.8	3766.8	3773.8	3808.6	3815.5	3819.0
7.5°	3669.3	3721.5	3770.3	3780.7	3791.2	3780.7	3777.2	3784.2	3819.0	3826.0	3826.0
10°	3634.5	3707.7	3763.3	3770.3	3780.7	3770.3	3770.3	3784.2	3819.0	3826.0	3829.5
12.5°	3585.8	3686.8	3738.9	3746.0	3759.8	3756.3	3752.9	3766.8	3801.6	3808.6	3808.6
15°	3530.1	3648.5	3697.2	3704.1	3728.5	3721.5	3721.5	3735.5	3773.8	3784.2	3780.7
17.5°	3453.5	3599.7	3655.4	3665.9	3683.2	3679.7	3683.2	3697.2	3732.0	3738.9	3742.4
20°	3366.4	3533.6	3599.7	3610.2	3627.6	3627.6	3627.6	3644.9	3679.7	3693.7	3693.7
22.5°	3248.0	3463.9	3533.6	3540.5	3561.4	3561.4	3568.4	3592.7	3624.0	3627.6	3627.6
25°	3108.8	3387.3	3446.5	3467.4	3488.3	3498.7	3509.2	3523.1	3533.6	3530.1	3533.6
27.5°	2962.6	3289.9	3366.4	3380.4	3408.2	3418.7	3432.6	3436.1	3439.5	3450.0	3443.0
30°	2799.0	3154.1	3268.9	3282.9	3328.1	3335.1	3321.2	3328.1	3345.5	3352.6	3359.5
32.5°	2614.4	2952.1	3168.0	3199.3	3241.1	3220.2	3216.8	3227.2	3255.1	3255.1	3262.0
35°	2363.9	2795.5	3074.1	3101.9	3133.2	3108.8	3122.7	3126.2	3143.6	3154.1	3150.6
37.5°	2088.8	2659.8	2976.6	2997.5	3021.8	2990.4	3011.3	3021.8	3035.8	3028.7	3028.7
40°	1845.1	2447.4	2861.7	2875.6	2896.5	2872.1	2892.9	2900.0	2906.9	2900.0	2896.5
42.5°	1664.1	2214.1	2739.8	2757.3	2743.3	2760.7	2767.6	2781.6	2771.1	2757.3	2757.3
45°	1524.8	2151.5	2607.5	2628.4	2607.5	2635.3	2645.8	2645.8	2614.4	2607.5	2604.1
47.5°	1479.6	2026.2	2475.2	2475.2	2464.8	2499.6	2517.0	2492.6	2461.3	2450.9	2450.9
50°	1476.1	1886.9	2294.2	2280.2	2329.0	2370.8	2353.4	2329.0	2304.7	2266.4	2266.4
52.5°	1340.3	1716.3	2060.9	2113.2	2189.8	2214.1	2186.3	2161.9	2120.1	2102.7	2088.8
55°	1242.8	1538.8	1848.6	1953.0	2033.1	2064.4	2012.2	1987.9	1925.1	1914.7	1907.8
57.5°	1222.0	1281.1	1653.7	1785.9	1883.4	1879.9	1848.6	1803.3	1751.1	1740.7	1737.2
60°	1121.0	926.0	1444.7	1601.4	1702.4	1692.0	1664.1	1622.3	1573.6	1566.6	1559.6
62.5°	1016.5	671.9	1208.0	1385.6	1528.3	1524.8	1500.5	1437.8	1403.0	1385.6	1371.6
65°	863.4	564.0	859.9	1152.3	1357.7	1364.7	1312.4	1267.2	1228.9	1208.0	1204.5
67.5°	657.9	459.5	581.3	960.9	1194.1	1187.1	1121.0	1100.1	1051.3	1040.9	1020.1
70°	487.4	306.4	403.8	779.8	1033.9	1016.5	964.3	940.0	894.7	870.3	856.4
72.5°	403.8	247.2	295.9	605.8	870.3	849.4	804.2	776.3	738.0	717.1	703.3
75°	327.3	261.1	226.3	449.1	706.7	692.8	651.0	623.2	591.8	564.0	567.5
77.5°	240.2	243.7	181.0	330.8	560.5	539.6	515.2	480.4	466.5	438.6	438.6
80°	181.0	191.5	135.8	226.3	403.8	403.8	382.9	358.6	334.2	320.3	320.3
82.5°	121.8	121.8	100.9	142.7	275.0	264.5	250.7	243.7	229.8	222.8	222.8
85°	55.7	69.6	62.6	87.0	149.7	156.7	156.7	149.7	146.2	139.2	142.7
87.5°	17.4	31.4	38.3	48.7	76.6	80.1	83.5	83.5	83.5	87.0	87.0
90°	8.2	14.7	21.2	22.8	35.9	53.4	62.1	55.2	41.4	31.0	31.0
92.5°	32.7	88.2	143.8	157.7	221.6	306.9	349.6	306.4	220.0	155.2	149.0
95°	78.4	180.1	281.8	307.1	545.3	863.0	1021.8	911.9	691.8	526.8	508.1
97.5°	135.6	225.3	315.0	337.4	734.6	1264.2	1529.0	1459.5	1320.4	1216.2	1180.6
100°	179.7	261.0	342.4	362.7	803.5	1391.1	1685.0	1690.1	1700.3	1707.9	1665.5
102.5°	217.3	293.2	369.0	387.9	835.0	1431.1	1729.2	1817.7	1994.9	2127.8	2091.5
105°	281.0	345.3	409.5	425.5	858.5	1435.7	1724.3	1922.9	2320.0	2617.9	2598.4
107.5°	346.3	406.2	466.1	481.1	862.8	1371.8	1626.3	1903.3	2457.2	2872.7	2877.4
110°	390.4	444.5	498.6	512.1	856.3	1315.2	1544.6	1854.3	2473.6	2938.0	2958.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	433.7	485.3	536.8	549.7	856.6	1265.7	1470.3	1787.2	2421.0	2896.4	2927.6
115°	499.1	546.6	594.2	606.0	864.4	1209.0	1381.2	1686.5	2297.1	2755.1	2798.4
117.5°	563.6	606.8	649.9	660.7	880.5	1173.4	1319.9	1595.4	2146.5	2559.8	2607.9
120°	601.2	641.9	682.4	692.6	893.6	1161.5	1295.4	1547.1	2050.7	2428.3	2475.0
122.5°	637.9	678.9	719.9	730.2	912.4	1155.2	1276.6	1503.3	1956.8	2296.8	2342.9
125°	694.3	731.7	769.1	778.4	937.7	1150.0	1256.2	1448.8	1834.0	2122.9	2165.3
127.5°	740.1	777.8	815.6	825.0	963.1	1147.1	1239.1	1404.5	1735.2	1983.2	2019.0
130°	764.6	805.2	845.8	856.0	981.5	1148.8	1232.5	1379.7	1674.1	1894.9	1928.0
132.5°	789.9	830.5	871.1	881.3	996.4	1150.0	1226.8	1358.6	1622.1	1819.8	1849.4
135°	827.4	864.4	901.5	910.7	1012.9	1149.0	1217.1	1327.4	1548.1	1713.7	1739.1
137.5°	865.8	902.5	939.2	948.3	1037.4	1156.0	1215.4	1308.7	1495.3	1635.2	1656.1
140°	897.6	931.4	965.2	973.6	1052.3	1157.2	1209.7	1290.3	1451.5	1572.3	1591.8
142.5°	922.1	953.4	984.6	992.4	1064.9	1161.4	1209.7	1280.5	1422.1	1528.2	1545.0
145°	959.7	986.9	1014.2	1021.0	1081.2	1161.4	1201.5	1259.4	1375.2	1462.1	1474.8
147.5°	997.3	1023.8	1050.4	1056.9	1105.2	1169.4	1201.5	1247.1	1338.2	1406.5	1417.1
150°	1021.8	1045.8	1069.8	1075.7	1117.6	1173.6	1201.5	1240.0	1316.9	1374.6	1383.1
152.5°	1047.1	1065.3	1083.4	1088.0	1125.8	1176.3	1201.5	1234.4	1300.1	1349.3	1355.7
155°	1084.7	1098.1	1111.6	1114.9	1143.8	1182.3	1201.5	1227.7	1279.9	1319.1	1323.4
157.5°	1112.5	1125.5	1138.6	1141.9	1161.7	1188.3	1201.5	1221.8	1262.5	1292.9	1295.9
160°	1131.3	1141.4	1151.6	1154.2	1170.0	1191.0	1201.5	1218.9	1253.8	1279.9	1281.7
162.5°	1150.0	1157.7	1165.2	1167.2	1178.6	1193.9	1201.5	1216.2	1245.6	1267.7	1269.3
165°	1170.5	1177.4	1184.2	1186.0	1191.2	1198.1	1201.5	1212.1	1233.0	1248.9	1250.6
167.5°	1189.2	1192.5	1195.8	1196.6	1201.0	1206.8	1209.7	1216.5	1230.3	1240.7	1241.4
170°	1201.5	1204.8	1208.1	1208.9	1209.2	1209.5	1209.7	1216.5	1230.3	1240.7	1240.7
172.5°	1208.0	1208.7	1209.5	1209.7	1209.7	1209.7	1209.7	1215.1	1226.0	1234.2	1233.6
175°	1217.1	1217.1	1217.1	1217.1	1214.6	1211.4	1209.7	1213.1	1220.0	1225.2	1225.2
177.5°	1217.1	1217.1	1217.1	1217.1	1215.1	1212.6	1211.4	1214.1	1219.5	1223.6	1222.9
180°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3773.8	3763.3	3773.8	3766.8	3770.3	3759.8	3728.5	3718.0	3728.5	3738.9	3738.9
5°	3819.0	3812.1	3819.0	3819.0	3815.5	3808.6	3773.8	3766.8	3773.8	3777.2	3770.3
7.5°	3832.9	3822.5	3832.9	3826.0	3826.0	3819.0	3784.2	3777.2	3780.7	3791.2	3780.7
10°	3832.9	3822.5	3832.9	3829.5	3826.0	3819.0	3784.2	3770.3	3770.3	3780.7	3770.3
12.5°	3815.5	3808.6	3815.5	3808.6	3808.6	3801.6	3766.8	3752.9	3756.3	3759.8	3746.0
15°	3787.7	3777.2	3787.7	3780.7	3784.2	3773.8	3735.5	3721.5	3721.5	3728.5	3704.1
17.5°	3746.0	3732.0	3746.0	3742.4	3738.9	3732.0	3697.2	3683.2	3679.7	3683.2	3665.9
20°	3697.2	3686.8	3697.2	3693.7	3693.7	3679.7	3644.9	3627.6	3627.6	3627.6	3610.2
22.5°	3620.6	3610.2	3620.6	3627.6	3627.6	3624.0	3592.7	3568.4	3561.4	3561.4	3540.5
25°	3533.6	3523.1	3533.6	3533.6	3530.1	3533.6	3523.1	3509.2	3498.7	3488.3	3467.4
27.5°	3450.0	3443.0	3450.0	3443.0	3450.0	3439.5	3436.1	3432.6	3418.7	3408.2	3380.4
30°	3366.4	3359.5	3366.4	3359.5	3352.6	3345.5	3328.1	3321.2	3335.1	3328.1	3282.9
32.5°	3262.0	3255.1	3262.0	3262.0	3255.1	3255.1	3227.2	3216.8	3220.2	3241.1	3199.3
35°	3154.1	3143.6	3154.1	3150.6	3154.1	3143.6	3126.2	3122.7	3108.8	3133.2	3101.9
37.5°	3028.7	3018.3	3028.7	3028.7	3028.7	3035.8	3021.8	3011.3	2990.4	3021.8	2997.5
40°	2900.0	2886.0	2900.0	2896.5	2900.0	2906.9	2900.0	2892.9	2872.1	2896.5	2875.6
42.5°	2753.7	2750.2	2753.7	2757.3	2757.3	2771.1	2781.6	2767.6	2760.7	2743.3	2757.3
45°	2597.0	2590.1	2597.0	2604.1	2607.5	2614.4	2645.8	2645.8	2635.3	2607.5	2628.4
47.5°	2430.0	2412.6	2430.0	2450.9	2450.9	2461.3	2492.6	2517.0	2499.6	2464.8	2475.2
50°	2252.4	2255.9	2252.4	2266.4	2266.4	2304.7	2329.0	2353.4	2370.8	2329.0	2280.2
52.5°	2078.3	2074.9	2078.3	2088.8	2102.7	2120.1	2161.9	2186.3	2214.1	2189.8	2113.2
55°	1904.2	1911.3	1904.2	1907.8	1914.7	1925.1	1987.9	2012.2	2064.4	2033.1	1953.0
57.5°	1730.3	1719.8	1730.3	1737.2	1740.7	1751.1	1803.3	1848.6	1879.9	1883.4	1785.9
60°	1528.3	1514.4	1528.3	1559.6	1566.6	1573.6	1622.3	1664.1	1692.0	1702.4	1601.4
62.5°	1350.7	1326.4	1350.7	1371.6	1385.6	1403.0	1437.8	1500.5	1524.8	1528.3	1385.6
65°	1162.8	1152.3	1162.8	1204.5	1208.0	1228.9	1267.2	1312.4	1364.7	1357.7	1152.3
67.5°	992.2	992.2	992.2	1020.1	1040.9	1051.3	1100.1	1121.0	1187.1	1194.1	960.9
70°	835.5	832.0	835.5	856.4	870.3	894.7	940.0	964.3	1016.5	1033.9	779.8
72.5°	685.9	682.4	685.9	703.3	717.1	738.0	776.3	804.2	849.4	870.3	605.8
75°	553.5	546.6	553.5	567.5	564.0	591.8	623.2	651.0	692.8	706.7	449.1
77.5°	424.7	424.7	424.7	438.6	438.6	466.5	480.4	515.2	539.6	560.5	330.8
80°	316.8	313.3	316.8	320.3	320.3	334.2	358.6	382.9	403.8	403.8	226.3
82.5°	222.8	215.8	222.8	222.8	222.8	229.8	243.7	250.7	264.5	275.0	142.7
85°	139.2	139.2	139.2	142.7	139.2	146.2	149.7	156.7	156.7	149.7	87.0
87.5°	90.6	87.0	90.6	87.0	87.0	83.5	83.5	83.5	80.1	76.6	48.7
90°	31.0	31.0	31.0	31.0	31.0	41.4	55.2	62.1	53.4	35.9	22.8
92.5°	124.4	99.7	124.4	149.0	155.2	220.0	306.4	349.6	306.9	221.6	157.7
95°	433.4	358.6	433.4	508.1	526.8	691.8	911.9	1021.8	863.0	545.3	307.1
97.5°	1038.3	896.0	1038.3	1180.6	1216.2	1320.4	1459.5	1529.0	1264.2	734.6	337.4
100°	1496.0	1326.5	1496.0	1665.5	1707.9	1700.3	1690.1	1685.0	1391.1	803.5	362.7
102.5°	1946.2	1801.0	1946.2	2091.5	2127.8	1994.9	1817.7	1729.2	1431.1	835.0	387.9
105°	2520.3	2442.2	2520.3	2598.4	2617.9	2320.0	1922.9	1724.3	1435.7	858.5	425.5
107.5°	2896.3	2915.2	2896.3	2877.4	2872.7	2457.2	1903.3	1626.3	1371.8	862.8	481.1
110°	3039.6	3121.0	3039.6	2958.3	2938.0	2473.6	1854.3	1544.6	1315.2	856.3	512.1





TEST NUMBER: P934853

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3052.4	3177.3	3052.4	2927.6	2896.4	2421.0	1787.2	1470.3	1265.7	856.6	549.7
115°	2971.5	3144.7	2971.5	2798.4	2755.1	2297.1	1686.5	1381.2	1209.0	864.4	606.0
117.5°	2799.8	2991.9	2799.8	2607.9	2559.8	2146.5	1595.4	1319.9	1173.4	880.5	660.7
120°	2661.6	2848.2	2661.6	2475.0	2428.3	2050.7	1547.1	1295.4	1161.5	893.6	692.6
122.5°	2526.9	2711.0	2526.9	2342.9	2296.8	1956.8	1503.3	1276.6	1155.2	912.4	730.2
125°	2334.8	2504.3	2334.8	2165.3	2122.9	1834.0	1448.8	1256.2	1150.0	937.7	778.4
127.5°	2162.0	2305.0	2162.0	2019.0	1983.2	1735.2	1404.5	1239.1	1147.1	963.1	825.0
130°	2060.1	2192.3	2060.1	1928.0	1894.9	1674.1	1379.7	1232.5	1148.8	981.5	856.0
132.5°	1967.7	2086.1	1967.7	1849.4	1819.8	1622.1	1358.6	1226.8	1150.0	996.4	881.3
135°	1841.2	1943.2	1841.2	1739.1	1713.7	1548.1	1327.4	1217.1	1149.0	1012.9	910.7
137.5°	1739.6	1823.1	1739.6	1656.1	1635.2	1495.3	1308.7	1215.4	1156.0	1037.4	948.3
140°	1669.9	1747.9	1669.9	1591.8	1572.3	1451.5	1290.3	1209.7	1157.2	1052.3	973.6
142.5°	1612.2	1679.3	1612.2	1545.0	1528.2	1422.1	1280.5	1209.7	1161.4	1064.9	992.4
145°	1525.6	1576.4	1525.6	1474.8	1462.1	1375.2	1259.4	1201.5	1161.4	1081.2	1021.0
147.5°	1459.1	1501.3	1459.1	1417.1	1406.5	1338.2	1247.1	1201.5	1169.4	1105.2	1056.9
150°	1417.3	1451.5	1417.3	1383.1	1374.6	1316.9	1240.0	1201.5	1173.6	1117.6	1075.7
152.5°	1381.6	1407.3	1381.6	1355.7	1349.3	1300.1	1234.4	1201.5	1176.3	1125.8	1088.0
155°	1340.5	1357.5	1340.5	1323.4	1319.1	1279.9	1227.7	1201.5	1182.3	1143.8	1114.9
157.5°	1308.0	1319.9	1308.0	1295.9	1292.9	1262.5	1221.8	1201.5	1188.3	1161.7	1141.9
160°	1288.6	1295.4	1288.6	1281.7	1279.9	1253.8	1218.9	1201.5	1191.0	1170.0	1154.2
162.5°	1275.8	1282.4	1275.8	1269.3	1267.7	1245.6	1216.2	1201.5	1193.9	1178.6	1167.2
165°	1257.5	1264.4	1257.5	1250.6	1248.9	1233.0	1212.1	1201.5	1198.1	1191.2	1186.0
167.5°	1244.4	1247.3	1244.4	1241.4	1240.7	1230.3	1216.5	1209.7	1206.8	1201.0	1196.6
170°	1240.7	1240.7	1240.7	1240.7	1240.7	1230.3	1216.5	1209.7	1209.5	1209.2	1208.9
172.5°	1231.0	1228.5	1231.0	1233.6	1234.2	1226.0	1215.1	1209.7	1209.7	1209.7	1209.7
175°	1225.2	1225.2	1225.2	1225.2	1225.2	1220.0	1213.1	1209.7	1211.4	1214.6	1217.1
177.5°	1220.0	1217.1	1220.0	1222.9	1223.6	1219.5	1214.1	1211.4	1212.6	1215.1	1217.1
180°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1



TEST NUMBER: P934853

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3732.0	3711.1	3711.1	3676.3	3662.3	3651.9	3634.5	3582.3	3568.4	3554.4	3575.3
5°	3763.3	3725.1	3697.2	3634.5	3582.3	3561.4	3495.3	3370.0	3286.3	3223.7	3188.9
7.5°	3770.3	3721.5	3669.3	3571.9	3446.5	3390.9	3188.9	2959.2	2896.5	2840.8	2805.9
10°	3763.3	3707.7	3634.5	3488.3	3192.4	3094.9	2892.9	2743.3	2705.0	2694.5	2705.0
12.5°	3738.9	3686.8	3585.8	3342.1	2927.8	2861.7	2743.3	2656.2	2649.3	2666.7	2760.7
15°	3697.2	3648.5	3530.1	3147.1	2781.6	2732.8	2649.3	2618.0	2656.2	2778.1	3060.1
17.5°	3655.4	3599.7	3453.5	2955.7	2670.2	2635.3	2576.1	2638.9	2854.7	3018.3	3112.3
20°	3599.7	3533.6	3366.4	2816.4	2590.1	2558.8	2530.9	2812.9	2976.6	3035.8	3087.9
22.5°	3533.6	3463.9	3248.0	2719.0	2506.6	2482.2	2499.6	2910.4	2976.6	3018.3	3063.6
25°	3446.5	3387.3	3108.8	2642.4	2440.4	2412.6	2478.7	2900.0	2938.3	2948.7	3039.2
27.5°	3366.4	3289.9	2962.6	2572.7	2360.3	2349.9	2496.1	2854.7	2882.6	2892.9	2990.4
30°	3268.9	3154.1	2799.0	2499.6	2276.8	2273.3	2499.6	2799.0	2792.0	2819.9	2917.4
32.5°	3168.0	2952.1	2614.4	2409.1	2196.7	2193.2	2475.2	2715.4	2708.5	2746.8	2819.9
35°	3074.1	2795.5	2363.9	2304.7	2095.8	2099.2	2416.0	2618.0	2621.5	2656.2	2701.5
37.5°	2976.6	2659.8	2088.8	2189.8	1998.3	1998.3	2335.9	2527.5	2520.5	2530.9	2593.6
40°	2861.7	2447.4	1845.1	2040.0	1907.8	1897.3	2238.5	2430.0	2405.6	2402.2	2489.2
42.5°	2739.8	2214.1	1664.1	1841.6	1803.3	1789.4	2120.1	2311.6	2266.4	2276.8	2388.2
45°	2607.5	2151.5	1524.8	1556.2	1695.4	1684.9	1991.3	2175.8	2144.5	2172.4	2287.3
47.5°	2475.2	2026.2	1479.6	1291.5	1580.5	1577.1	1848.6	2043.5	2026.2	2054.0	2175.8
50°	2294.2	1886.9	1476.1	1107.1	1451.7	1465.6	1678.0	1914.7	1914.7	1939.1	2067.9
52.5°	2060.9	1716.3	1340.3	1002.6	1302.0	1343.8	1528.3	1803.3	1810.3	1834.7	1949.6
55°	1848.6	1538.8	1242.8	922.6	1124.5	1215.0	1382.1	1688.4	1702.4	1726.7	1831.2
57.5°	1653.7	1281.1	1222.0	828.6	960.9	1047.9	1253.2	1577.1	1584.0	1604.9	1705.8
60°	1444.7	926.0	1121.0	727.6	818.1	884.3	1134.9	1444.7	1469.1	1483.0	1570.1
62.5°	1208.0	671.9	1016.5	657.9	748.5	762.5	1037.4	1319.4	1350.7	1361.2	1413.4
65°	859.9	564.0	863.4	598.8	675.4	678.8	933.0	1190.6	1218.5	1235.9	1274.2
67.5°	581.3	459.5	657.9	543.1	619.6	623.2	832.0	1040.9	1079.2	1093.1	1117.6
70°	403.8	306.4	487.4	483.9	557.0	564.0	724.2	905.2	940.0	950.4	964.3
72.5°	295.9	247.2	403.8	435.2	490.9	497.8	612.7	752.0	786.8	797.2	804.2
75°	226.3	261.1	327.3	379.4	417.7	421.2	501.3	612.7	637.1	644.1	647.5
77.5°	181.0	243.7	240.2	306.4	341.1	334.2	393.4	473.5	494.3	494.3	494.3
80°	135.8	191.5	181.0	219.3	250.7	243.7	282.0	337.7	344.6	351.6	348.2
82.5°	100.9	121.8	121.8	139.2	167.1	160.1	188.0	219.3	219.3	219.3	226.3
85°	62.6	69.6	55.7	73.1	94.0	90.6	104.4	118.4	121.8	121.8	114.9
87.5°	38.3	31.4	17.4	27.8	41.8	41.8	48.7	52.3	48.7	48.7	48.7
90°	21.2	14.7	8.2	14.7	21.2	22.8	35.9	53.4	62.1	55.2	41.4
92.5°	143.8	88.2	32.7	88.2	143.8	157.7	221.6	306.9	349.6	306.4	220.0
95°	281.8	180.1	78.4	180.1	281.8	307.1	545.3	863.0	1021.8	911.9	691.8
97.5°	315.0	225.3	135.6	225.3	315.0	337.4	734.6	1264.2	1529.0	1459.5	1320.4
100°	342.4	261.0	179.7	261.0	342.4	362.7	803.5	1391.1	1685.0	1690.1	1700.3
102.5°	369.0	293.2	217.3	293.2	369.0	387.9	835.0	1431.1	1729.2	1817.7	1994.9
105°	409.5	345.3	281.0	345.3	409.5	425.5	858.5	1435.7	1724.3	1922.9	2320.0
107.5°	466.1	406.2	346.3	406.2	466.1	481.1	862.8	1371.8	1626.3	1903.3	2457.2
110°	498.6	444.5	390.4	444.5	498.6	512.1	856.3	1315.2	1544.6	1854.3	2473.6



TEST NUMBER: P934853

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	536.8	485.3	433.7	485.3	536.8	549.7	856.6	1265.7	1470.3	1787.2	2421.0
115°	594.2	546.6	499.1	546.6	594.2	606.0	864.4	1209.0	1381.2	1686.5	2297.1
117.5°	649.9	606.8	563.6	606.8	649.9	660.7	880.5	1173.4	1319.9	1595.4	2146.5
120°	682.4	641.9	601.2	641.9	682.4	692.6	893.6	1161.5	1295.4	1547.1	2050.7
122.5°	719.9	678.9	637.9	678.9	719.9	730.2	912.4	1155.2	1276.6	1503.3	1956.8
125°	769.1	731.7	694.3	731.7	769.1	778.4	937.7	1150.0	1256.2	1448.8	1834.0
127.5°	815.6	777.8	740.1	777.8	815.6	825.0	963.1	1147.1	1239.1	1404.5	1735.2
130°	845.8	805.2	764.6	805.2	845.8	856.0	981.5	1148.8	1232.5	1379.7	1674.1
132.5°	871.1	830.5	789.9	830.5	871.1	881.3	996.4	1150.0	1226.8	1358.6	1622.1
135°	901.5	864.4	827.4	864.4	901.5	910.7	1012.9	1149.0	1217.1	1327.4	1548.1
137.5°	939.2	902.5	865.8	902.5	939.2	948.3	1037.4	1156.0	1215.4	1308.7	1495.3
140°	965.2	931.4	897.6	931.4	965.2	973.6	1052.3	1157.2	1209.7	1290.3	1451.5
142.5°	984.6	953.4	922.1	953.4	984.6	992.4	1064.9	1161.4	1209.7	1280.5	1422.1
145°	1014.2	986.9	959.7	986.9	1014.2	1021.0	1081.2	1161.4	1201.5	1259.4	1375.2
147.5°	1050.4	1023.8	997.3	1023.8	1050.4	1056.9	1105.2	1169.4	1201.5	1247.1	1338.2
150°	1069.8	1045.8	1021.8	1045.8	1069.8	1075.7	1117.6	1173.6	1201.5	1240.0	1316.9
152.5°	1083.4	1065.3	1047.1	1065.3	1083.4	1088.0	1125.8	1176.3	1201.5	1234.4	1300.1
155°	1111.6	1098.1	1084.7	1098.1	1111.6	1114.9	1143.8	1182.3	1201.5	1227.7	1279.9
157.5°	1138.6	1125.5	1112.5	1125.5	1138.6	1141.9	1161.7	1188.3	1201.5	1221.8	1262.5
160°	1151.6	1141.4	1131.3	1141.4	1151.6	1154.2	1170.0	1191.0	1201.5	1218.9	1253.8
162.5°	1165.2	1157.7	1150.0	1157.7	1165.2	1167.2	1178.6	1193.9	1201.5	1216.2	1245.6
165°	1184.2	1177.4	1170.5	1177.4	1184.2	1186.0	1191.2	1198.1	1201.5	1212.1	1233.0
167.5°	1195.8	1192.5	1189.2	1192.5	1195.8	1196.6	1201.0	1206.8	1209.7	1216.5	1230.3
170°	1208.1	1204.8	1201.5	1204.8	1208.1	1208.9	1209.2	1209.5	1209.7	1216.5	1230.3
172.5°	1209.5	1208.7	1208.0	1208.7	1209.5	1209.7	1209.7	1209.7	1209.7	1215.1	1226.0
175°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1214.6	1211.4	1209.7	1213.1	1220.0
177.5°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1215.1	1212.6	1211.4	1214.1	1219.5
180°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1



TEST NUMBER: P934853  
 CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3551.0	3540.5	3554.4	3516.1	3554.4	3540.5	3551.0	3575.3	3554.4	3568.4	3582.3
5°	3115.8	3098.4	3042.7	2997.5	3042.7	3098.4	3115.8	3188.9	3223.7	3286.3	3370.0
7.5°	2785.1	2771.1	2757.3	2729.3	2757.3	2771.1	2785.1	2805.9	2840.8	2896.5	2959.2
10°	2711.9	2715.4	2736.3	2732.8	2736.3	2715.4	2711.9	2705.0	2694.5	2705.0	2743.3
12.5°	2900.0	2931.2	3046.1	3039.2	3046.1	2931.2	2900.0	2760.7	2666.7	2649.3	2656.2
15°	3115.8	3126.2	3150.6	3154.1	3150.6	3126.2	3115.8	3060.1	2778.1	2656.2	2618.0
17.5°	3136.7	3140.2	3157.6	3157.6	3157.6	3140.2	3136.7	3112.3	3018.3	2854.7	2638.9
20°	3119.3	3126.2	3161.0	3168.0	3161.0	3126.2	3119.3	3087.9	3035.8	2976.6	2812.9
22.5°	3112.3	3126.2	3154.1	3150.6	3154.1	3126.2	3112.3	3063.6	3018.3	2976.6	2910.4
25°	3077.5	3077.5	3081.0	3084.4	3081.0	3077.5	3077.5	3039.2	2948.7	2938.3	2900.0
27.5°	3004.4	3011.3	3032.2	3028.7	3032.2	3011.3	3004.4	2990.4	2892.9	2882.6	2854.7
30°	2938.3	2931.2	2913.9	2900.0	2913.9	2931.2	2938.3	2917.4	2819.9	2792.0	2799.0
32.5°	2826.8	2809.4	2792.0	2781.6	2792.0	2809.4	2826.8	2819.9	2746.8	2708.5	2715.4
35°	2694.5	2698.1	2694.5	2684.1	2694.5	2698.1	2694.5	2701.5	2656.2	2621.5	2618.0
37.5°	2600.6	2607.5	2604.1	2590.1	2604.1	2607.5	2600.6	2593.6	2530.9	2520.5	2527.5
40°	2503.1	2506.6	2503.1	2492.6	2503.1	2506.6	2503.1	2489.2	2402.2	2405.6	2430.0
42.5°	2409.1	2405.6	2395.1	2388.2	2395.1	2405.6	2409.1	2388.2	2276.8	2266.4	2311.6
45°	2301.1	2304.7	2283.8	2273.3	2283.8	2304.7	2301.1	2287.3	2172.4	2144.5	2175.8
47.5°	2193.2	2193.2	2175.8	2165.4	2175.8	2193.2	2193.2	2175.8	2054.0	2026.2	2043.5
50°	2078.3	2074.9	2050.5	2047.1	2050.5	2074.9	2078.3	2067.9	1939.1	1914.7	1914.7
52.5°	1946.1	1946.1	1949.6	1956.5	1949.6	1946.1	1946.1	1949.6	1834.7	1810.3	1803.3
55°	1831.2	1834.7	1859.0	1866.0	1859.0	1834.7	1831.2	1831.2	1726.7	1702.4	1688.4
57.5°	1712.8	1712.8	1730.3	1730.3	1730.3	1712.8	1712.8	1705.8	1604.9	1584.0	1577.1
60°	1577.1	1584.0	1597.9	1594.5	1597.9	1584.0	1577.1	1570.1	1483.0	1469.1	1444.7
62.5°	1434.3	1441.3	1444.7	1437.8	1444.7	1441.3	1434.3	1413.4	1361.2	1350.7	1319.4
65°	1284.6	1291.5	1295.1	1288.1	1295.1	1291.5	1284.6	1274.2	1235.9	1218.5	1190.6
67.5°	1131.4	1127.9	1124.5	1138.4	1124.5	1127.9	1131.4	1117.6	1093.1	1079.2	1040.9
70°	974.7	974.7	971.3	978.3	971.3	974.7	974.7	964.3	950.4	940.0	905.2
72.5°	807.7	804.2	818.1	807.7	818.1	804.2	807.7	804.2	797.2	786.8	752.0
75°	644.1	651.0	644.1	654.5	644.1	651.0	644.1	647.5	644.1	637.1	612.7
77.5°	490.9	497.8	490.9	490.9	490.9	497.8	490.9	494.3	494.3	494.3	473.5
80°	348.2	344.6	344.6	341.1	344.6	344.6	348.2	348.2	351.6	344.6	337.7
82.5°	222.8	219.3	219.3	226.3	219.3	219.3	222.8	226.3	219.3	219.3	219.3
85°	121.8	125.3	118.4	118.4	118.4	125.3	121.8	114.9	121.8	121.8	118.4
87.5°	45.2	41.8	41.8	41.8	41.8	41.8	45.2	48.7	48.7	48.7	52.3
90°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	41.4	55.2	62.1	53.4
92.5°	155.2	149.0	124.4	99.7	124.4	149.0	155.2	220.0	306.4	349.6	306.9
95°	526.8	508.1	433.4	358.6	433.4	508.1	526.8	691.8	911.9	1021.8	863.0
97.5°	1216.2	1180.6	1038.3	896.0	1038.3	1180.6	1216.2	1320.4	1459.5	1529.0	1264.2
100°	1707.9	1665.5	1496.0	1326.5	1496.0	1665.5	1707.9	1700.3	1690.1	1685.0	1391.1
102.5°	2127.8	2091.5	1946.2	1801.0	1946.2	2091.5	2127.8	1994.9	1817.7	1729.2	1431.1
105°	2617.9	2598.4	2520.3	2442.2	2520.3	2598.4	2617.9	2320.0	1922.9	1724.3	1435.7
107.5°	2872.7	2877.4	2896.3	2915.2	2896.3	2877.4	2872.7	2457.2	1903.3	1626.3	1371.8
110°	2938.0	2958.3	3039.6	3121.0	3039.6	2958.3	2938.0	2473.6	1854.3	1544.6	1315.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2896.4	2927.6	3052.4	3177.3	3052.4	2927.6	2896.4	2421.0	1787.2	1470.3	1265.7
115°	2755.1	2798.4	2971.5	3144.7	2971.5	2798.4	2755.1	2297.1	1686.5	1381.2	1209.0
117.5°	2559.8	2607.9	2799.8	2991.9	2799.8	2607.9	2559.8	2146.5	1595.4	1319.9	1173.4
120°	2428.3	2475.0	2661.6	2848.2	2661.6	2475.0	2428.3	2050.7	1547.1	1295.4	1161.5
122.5°	2296.8	2342.9	2526.9	2711.0	2526.9	2342.9	2296.8	1956.8	1503.3	1276.6	1155.2
125°	2122.9	2165.3	2334.8	2504.3	2334.8	2165.3	2122.9	1834.0	1448.8	1256.2	1150.0
127.5°	1983.2	2019.0	2162.0	2305.0	2162.0	2019.0	1983.2	1735.2	1404.5	1239.1	1147.1
130°	1894.9	1928.0	2060.1	2192.3	2060.1	1928.0	1894.9	1674.1	1379.7	1232.5	1148.8
132.5°	1819.8	1849.4	1967.7	2086.1	1967.7	1849.4	1819.8	1622.1	1358.6	1226.8	1150.0
135°	1713.7	1739.1	1841.2	1943.2	1841.2	1739.1	1713.7	1548.1	1327.4	1217.1	1149.0
137.5°	1635.2	1656.1	1739.6	1823.1	1739.6	1656.1	1635.2	1495.3	1308.7	1215.4	1156.0
140°	1572.3	1591.8	1669.9	1747.9	1669.9	1591.8	1572.3	1451.5	1290.3	1209.7	1157.2
142.5°	1528.2	1545.0	1612.2	1679.3	1612.2	1545.0	1528.2	1422.1	1280.5	1209.7	1161.4
145°	1462.1	1474.8	1525.6	1576.4	1525.6	1474.8	1462.1	1375.2	1259.4	1201.5	1161.4
147.5°	1406.5	1417.1	1459.1	1501.3	1459.1	1417.1	1406.5	1338.2	1247.1	1201.5	1169.4
150°	1374.6	1383.1	1417.3	1451.5	1417.3	1383.1	1374.6	1316.9	1240.0	1201.5	1173.6
152.5°	1349.3	1355.7	1381.6	1407.3	1381.6	1355.7	1349.3	1300.1	1234.4	1201.5	1176.3
155°	1319.1	1323.4	1340.5	1357.5	1340.5	1323.4	1319.1	1279.9	1227.7	1201.5	1182.3
157.5°	1292.9	1295.9	1308.0	1319.9	1308.0	1295.9	1292.9	1262.5	1221.8	1201.5	1188.3
160°	1279.9	1281.7	1288.6	1295.4	1288.6	1281.7	1279.9	1253.8	1218.9	1201.5	1191.0
162.5°	1267.7	1269.3	1275.8	1282.4	1275.8	1269.3	1267.7	1245.6	1216.2	1201.5	1193.9
165°	1248.9	1250.6	1257.5	1264.4	1257.5	1250.6	1248.9	1233.0	1212.1	1201.5	1198.1
167.5°	1240.7	1241.4	1244.4	1247.3	1244.4	1241.4	1240.7	1230.3	1216.5	1209.7	1206.8
170°	1240.7	1240.7	1240.7	1240.7	1240.7	1240.7	1240.7	1230.3	1216.5	1209.7	1209.5
172.5°	1234.2	1233.6	1231.0	1228.5	1231.0	1233.6	1234.2	1226.0	1215.1	1209.7	1209.7
175°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1220.0	1213.1	1209.7	1211.4
177.5°	1223.6	1222.9	1220.0	1217.1	1220.0	1222.9	1223.6	1219.5	1214.1	1211.4	1212.6
180°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3634.5	3651.9	3662.3	3676.3	3711.1
5°	3495.3	3561.4	3582.3	3634.5	3697.2
7.5°	3188.9	3390.9	3446.5	3571.9	3669.3
10°	2892.9	3094.9	3192.4	3488.3	3634.5
12.5°	2743.3	2861.7	2927.8	3342.1	3585.8
15°	2649.3	2732.8	2781.6	3147.1	3530.1
17.5°	2576.1	2635.3	2670.2	2955.7	3453.5
20°	2530.9	2558.8	2590.1	2816.4	3366.4
22.5°	2499.6	2482.2	2506.6	2719.0	3248.0
25°	2478.7	2412.6	2440.4	2642.4	3108.8
27.5°	2496.1	2349.9	2360.3	2572.7	2962.6
30°	2499.6	2273.3	2276.8	2499.6	2799.0
32.5°	2475.2	2193.2	2196.7	2409.1	2614.4
35°	2416.0	2099.2	2095.8	2304.7	2363.9
37.5°	2335.9	1998.3	1998.3	2189.8	2088.8
40°	2238.5	1897.3	1907.8	2040.0	1845.1
42.5°	2120.1	1789.4	1803.3	1841.6	1664.1
45°	1991.3	1684.9	1695.4	1556.2	1524.8
47.5°	1848.6	1577.1	1580.5	1291.5	1479.6
50°	1678.0	1465.6	1451.7	1107.1	1476.1
52.5°	1528.3	1343.8	1302.0	1002.6	1340.3
55°	1382.1	1215.0	1124.5	922.6	1242.8
57.5°	1253.2	1047.9	960.9	828.6	1222.0
60°	1134.9	884.3	818.1	727.6	1121.0
62.5°	1037.4	762.5	748.5	657.9	1016.5
65°	933.0	678.8	675.4	598.8	863.4
67.5°	832.0	623.2	619.6	543.1	657.9
70°	724.2	564.0	557.0	483.9	487.4
72.5°	612.7	497.8	490.9	435.2	403.8
75°	501.3	421.2	417.7	379.4	327.3
77.5°	393.4	334.2	341.1	306.4	240.2
80°	282.0	243.7	250.7	219.3	181.0
82.5°	188.0	160.1	167.1	139.2	121.8
85°	104.4	90.6	94.0	73.1	55.7
87.5°	48.7	41.8	41.8	27.8	17.4
90°	35.9	22.8	21.2	14.7	8.2
92.5°	221.6	157.7	143.8	88.2	32.7
95°	545.3	307.1	281.8	180.1	78.4
97.5°	734.6	337.4	315.0	225.3	135.6
100°	803.5	362.7	342.4	261.0	179.7
102.5°	835.0	387.9	369.0	293.2	217.3
105°	858.5	425.5	409.5	345.3	281.0
107.5°	862.8	481.1	466.1	406.2	346.3
110°	856.3	512.1	498.6	444.5	390.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	856.6	549.7	536.8	485.3	433.7
115°	864.4	606.0	594.2	546.6	499.1
117.5°	880.5	660.7	649.9	606.8	563.6
120°	893.6	692.6	682.4	641.9	601.2
122.5°	912.4	730.2	719.9	678.9	637.9
125°	937.7	778.4	769.1	731.7	694.3
127.5°	963.1	825.0	815.6	777.8	740.1
130°	981.5	856.0	845.8	805.2	764.6
132.5°	996.4	881.3	871.1	830.5	789.9
135°	1012.9	910.7	901.5	864.4	827.4
137.5°	1037.4	948.3	939.2	902.5	865.8
140°	1052.3	973.6	965.2	931.4	897.6
142.5°	1064.9	992.4	984.6	953.4	922.1
145°	1081.2	1021.0	1014.2	986.9	959.7
147.5°	1105.2	1056.9	1050.4	1023.8	997.3
150°	1117.6	1075.7	1069.8	1045.8	1021.8
152.5°	1125.8	1088.0	1083.4	1065.3	1047.1
155°	1143.8	1114.9	1111.6	1098.1	1084.7
157.5°	1161.7	1141.9	1138.6	1125.5	1112.5
160°	1170.0	1154.2	1151.6	1141.4	1131.3
162.5°	1178.6	1167.2	1165.2	1157.7	1150.0
165°	1191.2	1186.0	1184.2	1177.4	1170.5
167.5°	1201.0	1196.6	1195.8	1192.5	1189.2
170°	1209.2	1208.9	1208.1	1204.8	1201.5
172.5°	1209.7	1209.7	1209.5	1208.7	1208.0
175°	1214.6	1217.1	1217.1	1217.1	1217.1
177.5°	1215.1	1217.1	1217.1	1217.1	1217.1
180°	1217.1	1217.1	1217.1	1217.1	1217.1



TEST NUMBER: P934853  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.69	14.60	14.61	15.53	16.73	16.54	17.45	17.46	18.38	19.58
	3H	14.17	14.98	15.10	15.93	17.15	17.90	18.71	18.82	19.65	20.88
	4H	14.36	15.13	15.31	16.08	17.31	18.35	19.11	19.29	20.06	21.30
	6H	14.48	15.19	15.44	16.15	17.39	18.64	19.35	19.59	20.30	21.55
	8H	14.49	15.16	15.45	16.13	17.38	18.72	19.39	19.68	20.36	21.61
	12H	14.46	15.10	15.43	16.07	17.34	18.76	19.40	19.73	20.37	21.64
4H	2H	14.73	15.50	15.68	16.45	17.68	16.95	17.72	17.90	18.67	19.91
	3H	15.76	16.40	16.72	17.38	18.63	18.47	19.11	19.43	20.09	21.34
	4H	16.04	16.63	17.01	17.60	18.87	19.01	19.59	19.97	20.56	21.84
	6H	16.17	16.67	17.15	17.67	18.94	19.38	19.88	20.36	20.88	22.15
	8H	16.18	16.65	17.16	17.64	18.92	19.49	19.96	20.47	20.95	22.24
	12H	16.15	16.57	17.15	17.58	18.87	19.55	19.98	20.55	20.98	22.27
8H	4H	16.50	16.97	17.48	17.96	19.25	19.13	19.60	20.11	20.59	21.88
	6H	16.77	17.15	17.77	18.19	19.47	19.58	19.97	20.58	21.00	22.28
	8H	16.81	17.15	17.82	18.17	19.47	19.73	20.08	20.75	21.09	22.40
	12H	16.79	17.10	17.81	18.11	19.46	19.84	20.14	20.86	21.15	22.50
12H	4H	16.51	16.94	17.51	17.94	19.23	19.10	19.52	20.10	20.53	21.82
	6H	16.83	17.17	17.84	18.19	19.49	19.57	19.92	20.59	20.94	22.24
	8H	16.90	17.20	17.92	18.21	19.56	19.74	20.04	20.76	21.06	22.40